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DEVELOPMENT OF DYNAMIC CUSHIONING CURVES FOR TYPE III FAST PACK--ETC(U)
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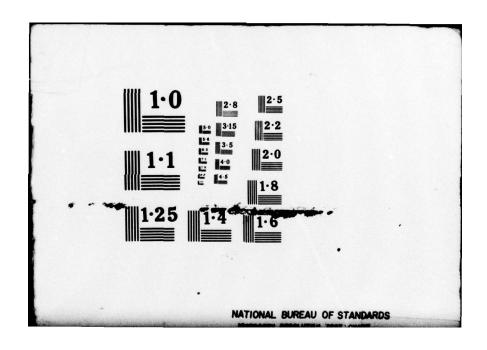








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AIR FORCE ACQUISITION LOGISTICS DIVISION AIR FORCE PACKAGING EVALUATION AGENCY WRIGHT-PATTERSON AIR FORCE BASE. OHIO 45433



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PROJECT NO. 78-P7-4

REPORT NO. 78-4

AFPER-18-97-4, PTPT-78-4

DEVELOPMENT OF DYNAMIC CUSHIONING CURVES FOR TYPE III FAST PACK (TPO-500-8089)

1 Apr 78

AUTHOR!

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ABSTRACT:

1. This Fast Pack evaluation was conducted in support of the Air Force Fast Pack program to update its inventory of Type III Fast Packs.

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- 2. This pack (TPO-500-8089) was obtained from Warner Robins Air Logistics Center (DSPC), and was constructed according to the attached Transportation Packaging Order (Atch 1). The container I.D. was 30" x 27" x 14". Convoluted polyurethane, 3 3/4" thick was used on all faces.
- 3. The test load was constructed of 3/4 inch thick plywood with dimensions of 24" x 21" x 8". The triaxially mounted accelerometers were located at the center of gravity (C.G.).
- 4. The instrumentation and general procedure used to develop the peak G-static stress curves (Atch 2) were the same as those used for testing the previous Type III Fast Packs (see DSPT Report No. 76-1). The drop height used for testing was 30 inches.

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Packaging Evaluation

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5. The results show that this pack will protect an item approximately 24" x 21" x 8", weighing from 26 to 50 lbs., to a minimum fragility of about 30 G's. No heavier than a 50 lb. item should be packed in this container because of the sharp increase in G levels.

Richard V. Brown

RICHARD V. BROWN

Mechanical Engineering Technician 1. TPO-500-8089 Air Force Packaging Evaluation Agency 2. Peak G-Static

2 Atch

Stress Curves

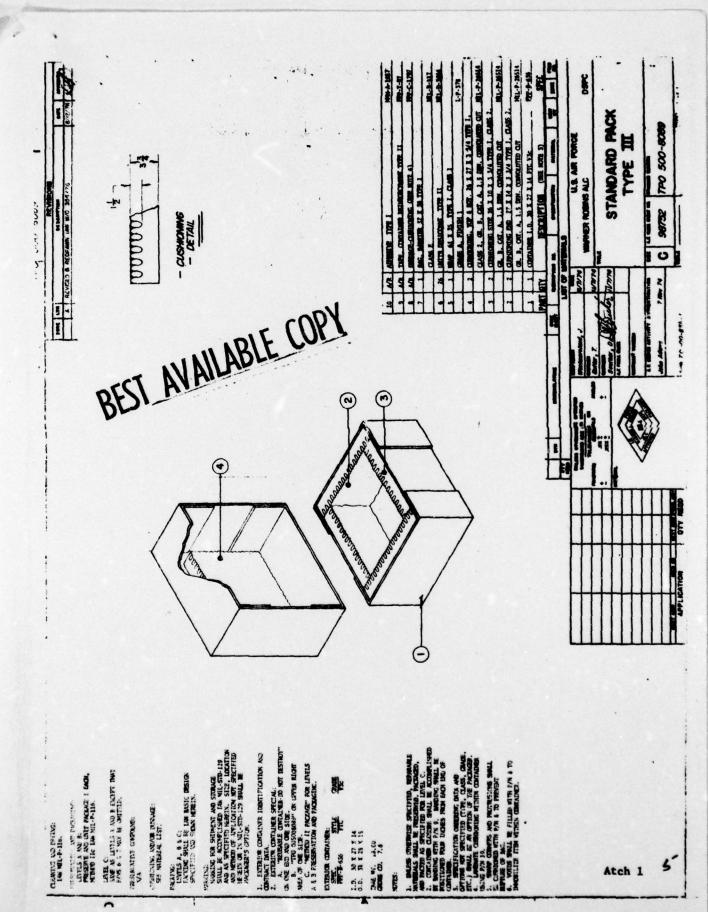
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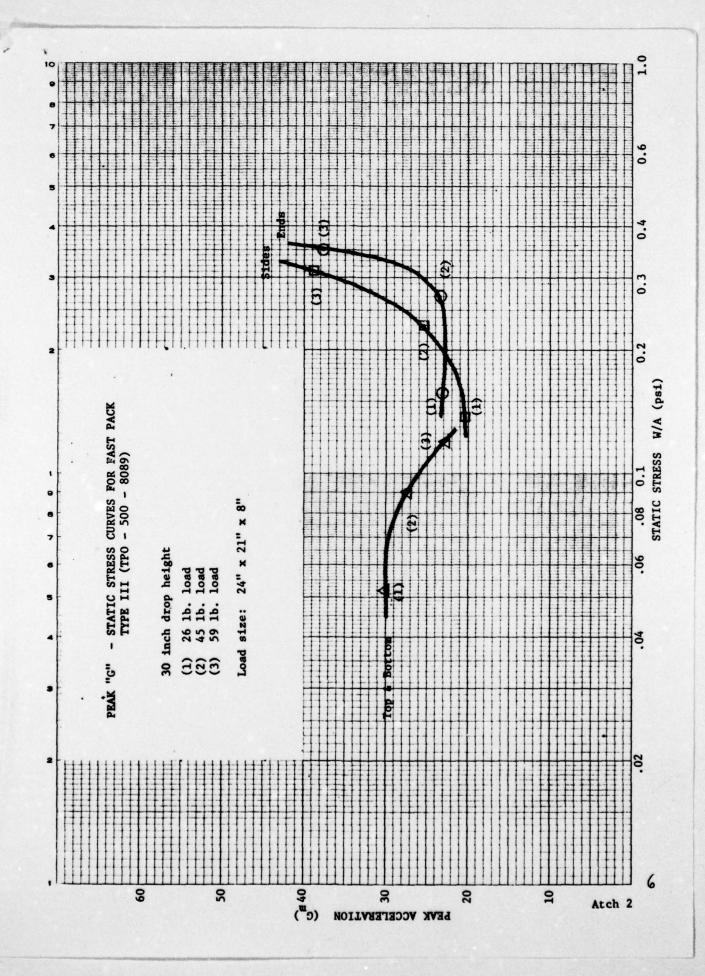
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Completed pack dynamic cushioning curves have be Fast Pack (TPO-500-8089). General test procedur on Test Method 5007, "Drop Test (Free Fall)", co Method Standard 101B. This container will prote 24" x 21" x 8", weighing from 26 to 50 lbs., to 30 G's.	en developed for the Type III res and drop height were based retained in Federal Test ect an item approximately